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MEASUREMENT REPORT

FCC PART 15.247 / RSS-247 Bluetooth-LE

FCC ID:	H8N-AP6356S

- IC: 1353A-AP6356S
- Applicant: Askey Computer Corp
- Application Type: CLASS II PERMISSIVE CHANGE
- Product: WIFI+BT Combo Module
- Model No.: AP6356S
- Brand Name: ASKEY
- FCC Classification: Digital Transmission System (DTS)
- FCC Rule Part(s): Part 15 Subpart C (Section 15.247)
- IC Rule(s): RSS-247 Issue 2, RSS-GEN Issue 5
- **Test Procedure(s):** ANSI C63.10-2013, KDB 558074 D01v05r02
- **Test Date:** July 20 ~ August 03, 2019

Reviewed By: Kevin Guo) Approved By: TESTING LABORATOR

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1905RSU034-U3	Rev. 01	Initial Report	08-23-2019	Valid

Note: This report is prepared for FCC Class II permissive change supplement to MRT original

"1902RSU013-U3" report adding a PIFA antenna and RF output power & Radiated Emission Data.



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Applicant:	Askey Computer Corp.				
Applicant Address:	10F, No.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY,				
	TAIWAN				
Manufacturer:	Askey Computer Corp.				
Manufacturer Address:	10F, No.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY,				
	TAIWAN				
Test Site:	MRT Technology (Suzhou) Co., Ltd				
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development				
	Zone, Suzhou, China				
Test Device Serial No.:	N/A Production Pre-Production Engineering				

§2.1033 General Information

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.





1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.





2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name:	WIFI+BT Combo Module
Model No.:	AP6356S
Brand Name:	ASKEY
Wi-Fi Specification:	802.11a/b/g/n/ac
Bluetooth Specification:	V4.2 dual mode
Power Type:	VBAT: 3.3V DC; VDDIO: 1.8V DC

2.2. Product Specification Subjective to this Report

Bluetooth Frequency:	2402~2480MHz
Bluetooth Version:	V4.2 dual mode
Type of Modulation:	GFSK
Data Rate:	1Mbps
Antenna Information:	Refer to section 2.4

Note: For other features of this EUT, test report will be issued separately.



Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz				

2.3. Working Frequencies for this report



2.4. Description of Available Antennas

Antenna Type	Frequency	T _X	Per Chain Max Antenna		Directional Gain			
	Band	Paths	Gain	(dBi)	(dE	Bi)		
	(GHz)		Ant 0	Ant 1	For Power	For PSD		
Wi-Fi Internal Antenna	Wi-Fi Internal Antenna							
PIFA	2412 ~ 2462	2	1.98	2.40	2.40	5.41		
PIFA	5150 ~ 5825	2	3.14	4.34	4.34	7.35		
Bluetooth Internal Antenna								
PIFA	2402 ~ 2480	1	1.98		1.98		-	

Note:

The EUT supports Cyclic Delay Diversity (CDD) technology on 802.11a/b/g mode, and CDD signals are correlated.

For CDD transmissions, directional gain is calculated as follows, N_{ANT} = 2, N_{SS} = 1.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

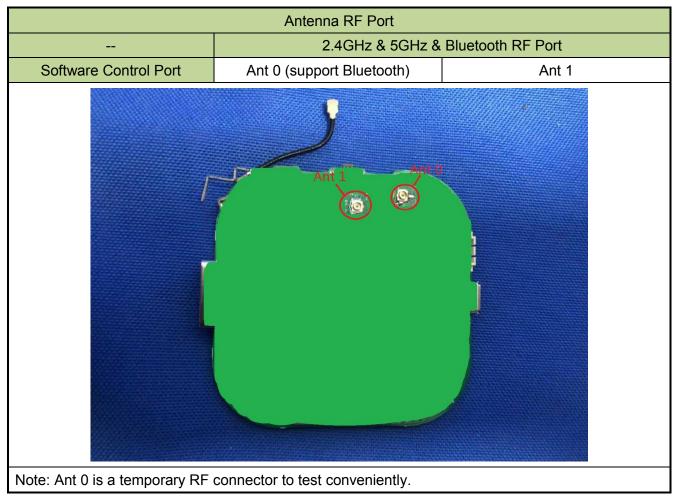
- For power spectral density (PSD) measurements on all devices, Array Gain = 10 log (N_{ANT}/ N_{SS}) dB = 3.01;
- For power measurements on IEEE 802.11 devices,

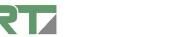
Array Gain = 0 dB for $N_{ANT} \le 4$;

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.



2.5. Description of Antenna RF Port





2.6. Device Capabilities

This device contains the following capabilities: 802.11a/b/g/n/ac WLAN, Bluetooth EDR & LE

2.7. Test Configuration

The device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.8. Test Software

The test utility software used during testing was the command provided by the customer.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.



2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

RSP-100 Issue 11 Section 3

The manufacturer, importer or distributor shall meet the labelling requirements set out in this section for every unit:

(i) prior to marketing in Canada, for products manufactured in Canada

(ii) prior to importation into Canada, for imported products

For information regarding the e-labelling option, see Notice 2014-DRS1003. The label for the certified product represents the manufacturer's or importer's compliance with Innovation, Science and Economic Development Canada's (ISED) regulatory requirements.

Please see attachment for IC label and label location.



3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided were used in the measurement. **Deviation from measurement procedure**.....**None**

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, $50\Omega/50$ uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions were used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.



3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the Antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable. For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive Antenna height using a broadband Antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn Antennas were used. For frequencies below 30MHz, a calibrated loop Antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband Antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive Antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn Antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive Antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive Antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn Antenna, the horn Antenna should be always directed to the EUT when rising height.



4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

Conclusion:

The unit complies with the requirement of §15.203.



5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2020/04/15
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2020/06/13
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2020/06/13
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2019/08/14
Shielding Room	MIX-BEP	Chamber-SR2	MRTSUE06215	N/A	N/A

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2020/08/01
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2019/09/25
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2020/03/31
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2019/10/19
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2019/08/14
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2020/04/30

Radiated Emission - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2020/08/01
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/09
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2019/10/19
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2019/11/09
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2020/06/11
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2019/12/13
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2020/04/30



Conducted Test Equipment - TR3

Instrument	Manufacturer	Туре No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2020/04/15
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2020/07/11
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2020/04/15
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2019/11/16
USB wideband power sensor	Keysight	U2021XA	MRTSUE06446	1 year	2020/06/30
USB wideband power sensor	Keysight	U2021XA	MRTSUE06447	1 year	2020/06/30
Bluetooth Test Set	Anritsu	MT8852B-042	MRTSUE06389	1 year	2020/06/13
Audio Analyzer	Agilent	U8903B	MRTSUE06143	1 year	2020/06/13
Modulation Analyzer	HP	8901A	MRTSUE06098	1 year	2019/10/18
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2019/11/16
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2019/11/16
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2019/08/14

Software	Version	Function	
EMI Software	V3	EMI Test Software	



6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Conducted Emic	ssion Measurement - SR2
	um measurement uncertainty is evaluated as:
9kHz~150k	Hz: 3.84dB
150kHz~30	MHz: 3.46dB
Radiated Emiss	ion Measurement - AC1
The maxim	um measurement uncertainty is evaluated as:
Horizontal:	30MHz~300MHz: 4.07dB
	300MHz~1GHz: 3.63dB
	1GHz~18GHz: 4.16dB
Vertical:	30MHz~300MHz: 4.18dB
	300MHz~1GHz: 3.60dB
	1GHz~18GHz: 4.76dB
Radiated Emiss	ion Measurement - AC2
The maxim	um measurement uncertainty is evaluated as:
Horizontal:	30MHz~300MHz: 3.75dB
	300MHz~1GHz: 3.53dB
	1GHz~18GHz: 4.28dB
Vertical:	30MHz~300MHz: 3.86dB
	300MHz~1GHz: 3.53dB
	1GHz~18GHz: 4.33dB



7. TEST RESULT

7.1. Summary

FCC Section(s)	IC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(b)(3)	RSS-247 [5.4(4)]	Output Power	≤ 30dBm	Conducted	Pass	Section 7.2
15.205 15.209	RSS-247 [5.5]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.3 & 7.4

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.



7.2. Output Power Measurement

7.2.1.Test Limit

The maximum out power shall be less 1 Watt (30dBm) and the E.I.R.P shall not exceed 4 Watt (36dBm).

7.2.2.Test Procedure Used

ANSI C63.10-2013 - Section 11.9.2.3

7.2.3.Test Setting

Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

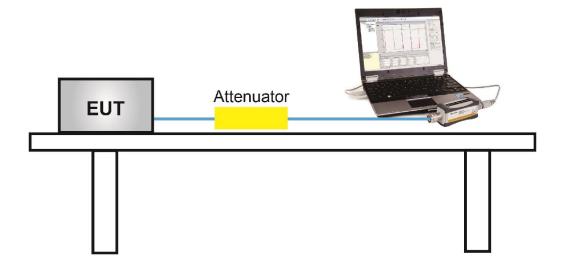
Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Method AVGPM-G (Measurement using a gated RF average-reading power meter)

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.



7.2.4.Test Setup





7.2.5.Test Result of Output Power

Product	WIFI+BT Combo Module	Temperature	23°C
Test Engineer	Hunk Li	Relative Humidity	53%
Test Site	TR3	Test Date	2019/07/20
Test Item	Peak Output Power		

Test Mode	Data Rate	Channel	Frequency	Peak Power	Limit	E.I.R.P	E.I.R.P	Result
	(Mbps)	No.	(MHz)	(dBm)	(dBm)	(dBm)	Limit (dBm)	
BLE	1	00	2402	6.71	≤ 30.00	8.69	≤ 36.00	Pass
BLE	1	19	2440	7.89	≤ 30.00	9.87	≤ 36.00	Pass
BLE	1	39	2480	8.25	≤ 30.00	10.23	≤ 36.00	Pass

Note: E.I.R.P (dBm) = Peak Power (dBm) + Antenna Gain (dBi), Antenna Gain = 1.98dBi.

Product	WIFI+BT Combo Module	Temperature	23°C
Test Engineer	Hunk Li	Relative Humidity	53%
Test Site	TR3	Test Date	2019/07/20
Test Item	Average Output Power		

Test Mode	Data Rate	Channel	Frequency	Average	Limit	E.I.R.P	E.I.R.P	Result
	(Mbps)	No.	(MHz)	Power (dBm)	(dBm)	(dBm)	Limit (dBm)	
BLE	1	00	2402	6.11	≤ 30.00	8.09	≤ 36.00	Pass
BLE	1	19	2440	7.42	≤ 30.00	9.40	≤ 36.00	Pass
BLE	1	39	2480	7.76	≤ 30.00	9.74	≤ 36.00	Pass

Note: E.I.R.P (dBm) = Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = 1.98dBi.



7.3. Radiated Spurious Emission Measurement

7.3.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47

CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209						
Frequency	Field Strength	Measured Distance				
[MHz]	[V/m]	[Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				

7.3.2.Test Procedure Used

- ANSI C63.10 Section 6.3 (General Requirements)
- ANSI C63.10 Section 6.4 (Standard test method below 30MHz)
- ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)
- ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.3.3.Test Setting

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in Table 1
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Table 1 - RBW as a function of frequency

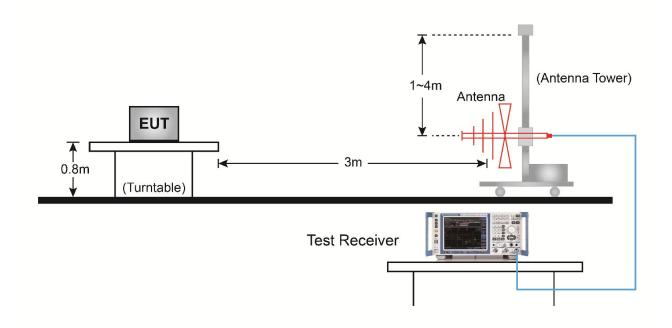
Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

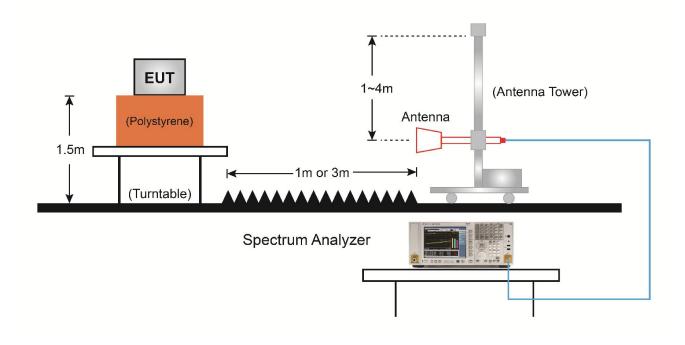


7.3.4.Test Setup

<u>30MHz ~ 1GHz Test Setup:</u>



<u>1GHz ~ 18GHz Test Setup:</u>





7.3.5.Test Result

Product	WIFI+BT Combo Module	Temperature	25°C		
Test Engineer	Dandy Li	Relative Humidity	56%		
Test Site	AC1	Test Date	2019/08/03		
Test Mode	BLE	Test Channel 00			
Remark	 Average measurement was not performed if peak level lower than average limit (54dBµV/m). Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 				

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4068.5	38.5	2.7	41.2	74.0	-32.8	Peak	Horizontal
	4808.0	36.8	5.6	42.4	74.0	-31.6	Peak	Horizontal
*	6712.0	36.2	9.6	45.8	80.8	-35.0	Peak	Horizontal
*	10010.0	34.8	16.1	50.9	80.8	-29.9	Peak	Horizontal
	3822.0	39.3	1.9	41.2	74.0	-32.8	Peak	Vertical
	4808.0	37.9	5.6	43.5	74.0	-30.5	Peak	Vertical
*	6542.0	35.3	9.6	44.9	80.8	-35.9	Peak	Vertical
*	8582.0	36.2	12.9	49.1	80.8	-31.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.8dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	WIFI+BT Combo Module	Temperature	25°C	
Test Engineer	Dandy Li	Relative Humidity	56%	
Test Site	AC1	Test Date	2019/08/03	
Test Mode	BLE	Test Channel	19	
Remark	 Average measurement was not performed if peak level lower than average limit (54dBµV/m). Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 			

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4068.5	37.9	2.7	40.6	74.0	-33.4	Peak	Horizontal
	4995.0	36.0	6.1	42.1	74.0	-31.9	Peak	Horizontal
*	6023.5	36.1	7.5	43.6	82.7	-39.1	Peak	Horizontal
*	9967.5	34.8	16.0	50.8	82.7	-31.9	Peak	Horizontal
	4068.5	38.2	2.7	40.9	74.0	-33.1	Peak	Vertical
	4876.0	37.0	5.7	42.7	74.0	-31.3	Peak	Vertical
*	6550.5	35.0	9.5	44.5	82.7	-38.2	Peak	Vertical
*	9950.5	35.7	16.1	51.8	82.7	-30.9	Peak	Vertical
Note 1	: "*" is not in r	estricted ban	d, its limit i	is 20dBc of th	ne fundamenta	emissior	n level (10	2.7dBµV/m)

or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



Product	WIFI+BT Combo Module	Temperature	25°C	
Test Engineer	Dandy Li	Relative Humidity	56%	
Test Site	AC1	Test Date	2019/08/03	
Test Mode	BLE	Test Channel	39	
Remark	 Average measurement was not performed if peak level lower than average limit (54dBµV/m). Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report. 			

Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
	(dBµV)		(dBµV/m)				
4060.0	37.5	2.7	40.2	74.0	-33.8	Peak	Horizontal
4910.0	37.0	5.7	42.7	74.0	-31.3	Peak	Horizontal
6533.5	35.9	9.6	45.5	83.2	-37.7	Peak	Horizontal
10154.5	34.5	16.4	50.9	83.2	-32.3	Peak	Horizontal
4102.5	38.5	2.9	41.4	74.0	-32.6	Peak	Vertical
4944.0	36.6	5.8	42.4	74.0	-31.6	Peak	Vertical
6482.5	35.3	9.4	44.7	83.2	-38.5	Peak	Vertical
9670.0	34.3	15.3	49.6	83.2	-33.6	Peak	Vertical
	(MHz) 4060.0 4910.0 6533.5 10154.5 4102.5 4944.0 6482.5	(MHz) Level (dBµV) 4060.0 37.5 4910.0 37.0 6533.5 35.9 10154.5 34.5 4102.5 38.5 4944.0 36.6 6482.5 35.3	(MHz) Level (dBµV) (dB) 4060.0 37.5 2.7 4910.0 37.0 5.7 6533.5 35.9 9.6 10154.5 34.5 16.4 4102.5 38.5 2.9 4944.0 36.6 5.8 6482.5 35.3 9.4	(MHz) Level (dBμV) (dB) Level (dBμV/m) 4060.0 37.5 2.7 40.2 4910.0 37.0 5.7 42.7 6533.5 35.9 9.6 45.5 10154.5 34.5 16.4 50.9 4102.5 38.5 2.9 41.4 4944.0 36.6 5.8 42.4 6482.5 35.3 9.4 44.7	(MHz)Level (dBμV)(dB)Level (dBμV/m)(dBμV/m)4060.037.52.740.274.04910.037.05.742.774.06533.535.99.645.583.210154.534.516.450.983.24102.538.52.941.474.04944.036.65.842.474.06482.535.39.444.783.2	(MHz)Level (dBµV)(dB)Level (dBµV/m)(dBµV/m)(dB)4060.037.52.740.274.0-33.84910.037.05.742.774.0-31.36533.535.99.645.583.2-37.710154.534.516.450.983.2-32.34102.538.52.941.474.0-32.64944.036.65.842.474.0-31.66482.535.39.444.783.2-38.5	(MHz) Level (dBµV) (dB) Level (dBµV/m) (dBµV/m) (dB) (dB) 4060.0 37.5 2.7 40.2 74.0 -33.8 Peak 4910.0 37.0 5.7 42.7 74.0 -31.3 Peak 6533.5 35.9 9.6 45.5 83.2 -37.7 Peak 10154.5 34.5 16.4 50.9 83.2 -32.3 Peak 4102.5 38.5 2.9 41.4 74.0 -32.6 Peak 4944.0 36.6 5.8 42.4 74.0 -31.6 Peak 6482.5 35.3 9.4 44.7 83.2 -38.5 Peak

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

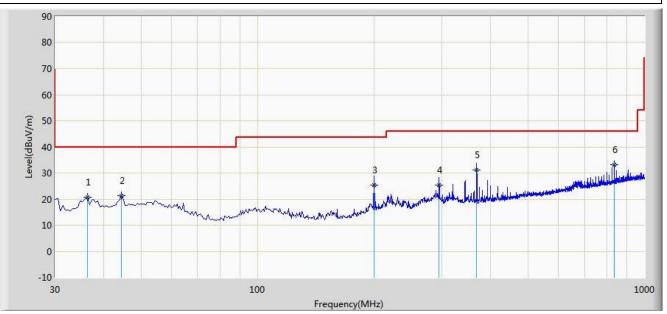
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)



The worst case of Radiated Emission below 1GHz:

Time: 2019/08/08 - 22:41	
Engineer: Dillon Diao	
Polarity: Horizontal	
Power: AC 120V/60Hz	

Worst Case Mode: There is the worst case within frequency range 30MHz~1GHz.



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1			36.305	20.746	7.630	-19.254	40.000	13.116	QP
2			44.550	21.222	6.584	-18.778	40.000	14.638	QP
3			200.150	25.493	13.410	-18.007	43.500	12.084	QP
4			294.820	25.463	11.250	-20.537	46.000	14.213	QP
5			368.510	31.075	15.240	-14.925	46.000	15.835	QP
6		*	835.585	33.217	10.311	-12.783	46.000	22.906	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

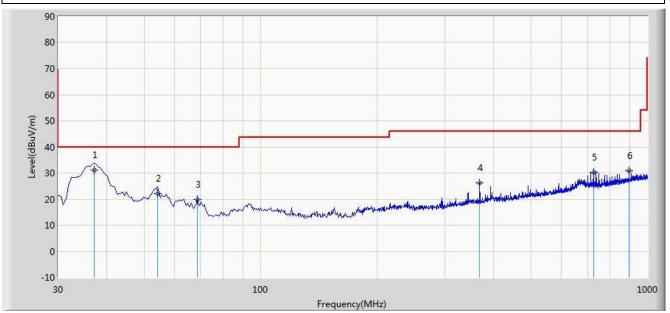
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.



Time: 2019/08/08 - 22:45
Engineer: Dillon Diao
Polarity: Vertical
Power: AC 120V/60Hz

Worst Case Mode: There is the worst case within frequency range 30MHz~1GHz.



No	Flag	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре
			(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
				(dBuV/m)	(dBuV)				
1		*	37.240	31.118	17.840	-8.882	40.000	13.279	QP
2			54.240	22.166	7.450	-17.834	40.000	14.716	QP
3			68.800	19.941	8.768	-20.059	40.000	11.173	QP
4			368.530	26.358	10.522	-19.642	46.000	15.836	QP
5			725.005	30.226	8.723	-15.774	46.000	21.503	QP
6			897.180	30.839	7.254	-15.161	46.000	23.585	QP

Note 1: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.



7.4. Radiated Restricted Band Edge Measurement

7.4.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			



All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title

FCC Part 15 Subpart C Paragraph 15.209						
Frequency	Field Strength	Measured Distance				
[MHz]	[uV/m]	[Meters]				
0.009 - 0.490	2400/F (kHz)	300				
0.490 - 1.705	24000/F (kHz)	30				
1.705 - 30	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				



For RSS-Gen Section 8.10 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must

also comply with the radiated emission limits specified in Section 8.9.

Frequency	Frequency	Frequency
(MHz)	(MHz)	(GHz)
0.009 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.525225	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 -1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 -2390	
12.51975 - 12.52025	2655 - 2900	
12.57675 - 12.57725	3260 - 3267	
13.36 -13.41	3332 -3339	
16.42 - 16.423	334.5 - 3358	
16.69475 - 16.69525	3500 - 4400	
16.80425 - 16.80475	4500 - 5150	
25.5 - 25.67	5350 - 5460	
37.5 - 38.25	7250 - 7750	
73 - 74.6	8025 - 8500	
74.8 - 75.2		
108 - 138		



All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-Gen must not exceed the limits shown in Table per Section 8.9.

RSS-Gen Section 8.9								
Frequency	Field Strength	Measured Distance						
[MHz]	[uV/m]	[Meters]						
0.009 - 0.490	2400/F (kHz)	300						
0.490 - 1.705	24000/F (kHz)	30						
1.705 - 30	30	30						
30 - 88	100	3						
88 - 216	150	3						
216 - 960	200	3						
Above 960	500	3						

7.4.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.4.3.Test Setting

Peak Field Strength Measurements

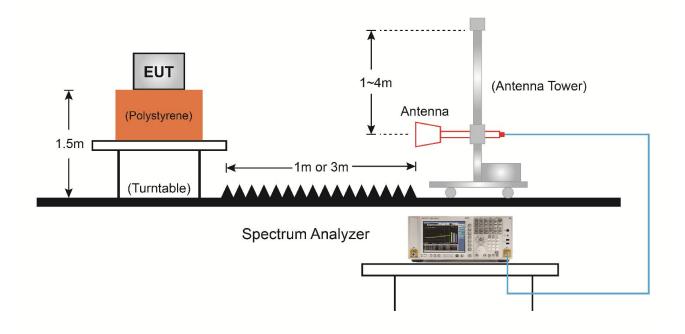
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize



Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ 1/T
- 4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
- 5. Detector = Peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.4.4.Test Setup





7.4.5.Test Result

Site: AC1					Time: 2019/08/03 - 00:25				
Limi	Limit: FCC_Part15_RE(3m)					dy Li			
Prot	be: BBH	IA9120D_1-18	GHz		Polarity: Horiz	ontal			
EUT	: WIFI+	BT Combo Mo	dule		Power: AC120	V/60Hz			
Note: Transmit by BLE at channel 2402MHz									
Level(dBuV/m)	60 50 40 30 2310	2315 2320 2325	2330 2335 2340) 2345 2350 23	55 2360 2365 2 uency(MHz)	370 2375 2380	2385 2390 23	3	
No	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре	
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)		
			(dBuV/m)	(dBuV)					
1		2342.300	59.315	26.772	-14.685	74.000	32.543	PK	
2		2390.000	57.080	24.667	-16.920	74.000	32.413	PK	
3	*	2402.293	100.829	68.433	N/A	N/A	32.396	PK	

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)



Site:	AC1				Time: 2019/08/03 - 00:29			
Limi	Limit: FCC_Part15_RE(3m)					dy Li		
Prob	e: BB⊢	IA9120D_1-18	GHz		Polarity: Horiz	ontal		
EUT	: WIFI+	BT Combo Mo	dule		Power: AC120	V/60Hz		
Note	: Trans	mit by BLE at	channel 2402M	1Hz				
Level(dBuV/m)		2315 2320 2325	2330 2335 234	Freq	55 2360 2365 2 uency(MHz)	370 2375 2380		2
No	Mark	Frequency (MHz)	Measure Level	Reading Level	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Туре
			(dBuV/m)	(dBuV)				
1		2390.000	42.868	10.455	-11.132	54.000	32.413	AV
1 . 1			.2.000	10.100		01.000	02.110	



Site: AC1					Time: 2019/08/03 - 00:30				
Limi	Limit: FCC_Part15_RE(3m)				Engineer: Dandy Li				
Prot	be: BBH	IA9120D_1-180	GHz		Polarity: Vertic	al			
EUT	: WIFI+	BT Combo Mo	dule		Power: AC120	V/60Hz			
Note: Transmit by BLE at channel 2402MHz									
Level(dBuV/m)	60 	2315 2320 2325	2330 2335 2340) 2345 2350 23	55 2360 2365 2 uency(MHz)	нцинининининининин 370 2375 2380		3 4 4 95 2400 2405	
No	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре	
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)		
			(dBuV/m)	(dBuV)					
1		2337.075	59.451	26.889	-14.549	74.000	32.562	PK	
2		2390.000	56.969	24.556	-17.031	74.000	32.413	PK	
3	*	2402.245	93.494	61.098	N/A	N/A	32.396	PK	



Site	AC1				Time: 2019/08/03 - 00:31					
Limi	Limit: FCC_Part15_RE(3m)					Engineer: Dandy Li				
Prot	e: BBH	A9120D_1-18	GHz		Polarity: Vertic	al				
EUT	: WIFI+	BT Combo Mo	dule		Power: AC120	V/60Hz				
Note	e: Trans									
Level(dBuV/m)	60 50 40	Mun Mun Marina Marina 2315 2320 2325	2330 2335 2340) 2345 2350 23	мулици, чару, "Ми 55 2360 2365 2 uency(MHz)	1	2 2 2 2 2 2 2 2 385 2390 23	3		
No	Mark	Frequency	Measure	Reading	Margin	Limit	Factor	Туре		
		(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)			
			(dBuV/m)	(dBuV)						
1		2380.490	44.251	11.821	-9.749	54.000	32.431	AV		
2		2390.000	42.338	9.925	-11.662	54.000	32.413	AV		
3	*	2402.102	92.239	59.843	N/A	N/A	32.395	AV		



Site: AC1				Time: 2019/08/03 - 00:32					
Limit: FCC_Pa	Limit: FCC_Part15_RE(3m)				Engineer: Dandy Li				
Probe: BBHA9	9120D_1-180	GHz		Polarity: Horizo	ontal				
EUT: WIFI+BT	T Combo Moo	dule		Power: AC120	V/60Hz				
Note: Transmit by BLE at channel 2480MHz									
130 (W) 80 80 70 60 40 30 2477 2478	8 2480	2482 2484	2486 24	88 2490 Jency(MHz)	3 j+b/t+1 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	14444444 - 10444 2496	2498 2500		
No Mark F	requency	Measure	Reading	Margin	Limit	Factor	Туре		
1) (1	MHz)	Level	Level	(dB)	(dBuV/m)	(dB)			
		(dBuV/m)	(dBuV)						
1 * 2	2480.266	103.169	70.760	N/A	N/A	32.409	PK		
2 2	2483.500	56.583	24.168	-17.417	74.000	32.416	PK		
3 2	2492.663	59.306	26.872	-14.694	74.000	32.433	PK		



Site: AC1	Time: 2019/08/03 - 00:33					
Limit: FCC_Part15_RE(3m	Engineer: Dandy Li					
Probe: BBHA9120D_1-180	GHz		Polarity: Horiz	ontal		
EUT: WIFI+BT Combo Mo	dule		Power: AC120	V/60Hz		
Note: Transmit by BLE at o	channel 2480M	IHz				
130 (W/)ng) 80 70 60 50 40 30 2477 2478 2480	2482 2484	Freq	44	2492 2494		2498 2500
No Mark Frequency	Measure	Reading	Margin	Limit	Factor	Туре
(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
	(dBuV/m)	(dBuV)				
1 * 2480.082	102.473	70.064	N/A	N/A	32.408	AV
2 2483.500	43.590	11.175	-10.410	54.000	32.416	AV



Site: AC1				Time: 2019/08/03 - 00:34				
Limit: FCC	_Part15_RE(3n	n)		Engineer: Dandy Li				
Probe: BBH	HA9120D_1-18	GHz		Polarity: Vertic	cal			
EUT: WIFI+	BT Combo Mo	dule		Power: AC120)V/60Hz			
Note: Trans	smit by BLE at	channel 2480N	lHz					
130 (m//mg 80 70 60	1	2	And an from the Physical day by a state of the	3 3 11 11 11 11 11 11 11 11 11 11 11 11	h,qiirgio,tik \l-ufe-h,udohf.augusurrett	na the second line strategy	held for the standard and	
50 40 30 2477 :	2478 2480	2482 2484		2488 2490 quency(MHz)	2492 2494	2496	2498 2500	
40	2478 2480 Frequency	2482 2484 Measure			2492 2494 Limit	2496 Factor	2498 2500 Type	
40 30 2477 :			Free	quency(MHz)				
40 30 2477 :	Frequency	Measure	Free	quency(MHz)	Limit	Factor		
40 30 2477 :	Frequency	Measure Level	Free Reading Level	quency(MHz)	Limit	Factor		
40 30 2477 : No Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	quency(MHz) Margin (dB)	Limit (dBuV/m)	Factor (dB)	Туре	



Site: AC	1			Time: 2019/08/03 - 00:35			
Limit: F	C_Part15_RE(3n	n)		Engineer: Dandy Li			
Probe:	BHA9120D_1-18	GHz		Polarity: Vertic	al		
EUT: W	FI+BT Combo Mo	dule		Power: AC120	V/60Hz		
Note: T	ansmit by BLE at	channel 2480N	IHz				
130 (W//Jngp) 80 50 60 50 40 30 24	1	2482 2484		188 2490 uency(MHz)	2492 2494	3 	2498 2500
No Ma		Measure	Reading	Margin	Limit	Factor	Туре
	(MHz)	Level	Level	(dB)	(dBuV/m)	(dB)	
		(dBuV/m)	(dBuV)				
1 *	2480.094	95.577	63.168	N/A	N/A	32.408	AV
2	2483.500	43.172	10.757	-10.828	54.000	32.416	AV
3	2495.239	45.189	12.750	-8.811	54.000	32.439	AV



8. CONCLUSION

The data collected relate only the item(s) tested and show that the unit is in compliance with Part

15C of the FCC rules and ISED rules.

— The End



Appendix A - Test Setup Photograph

Refer to "1905RSU034-UT" file.



Appendix B - EUT Photograph

Refer to "1905RSU034-UE" file.